



What is claimed is:

	1.	A method of manipulating graphical block diagram block parameters in a graphical
block diagra		diagram modeling environment, comprising:
		receiving a graphical block diagram of blocks for a model developed by a user; and

processing parameters specified for each of the blocks by the user to produce run-

time parameters.

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- 2. The method of claim 1, wherein the run-time parameters comprise non-interfaced parameters, and wherein processing comprises:
 - determining which of the non-interfaced parameters have matching values; and defining a pooled parameter to represent the non-interfaced parameters having matching values in references to such non-interfaced parameters.
 - 3. The method of claim 2, wherein the processing parameters further comprises defining a structure to enable code generation from the model that includes the pooled parameter.
 - 4. The method of claim 2, wherein determining comprises: identifying which of the non-interfaced parameters match a given criterion.
- 5. The method of claim 3, wherein the given criterion requires an exact match of values of the non-interfaced parameters.
- 1 6. The method of claim 4, wherein the given criterion requires an exact match between a 2 value of one of the non-interfaced parameters and a value of at least one other of the non-3 interfaced values after a data matching function is applied to the value of the at least one
- 4 other of the non-interfaced parameters.
- 7. The method of claim 1, wherein the run-time parameters comprise an interfaced parameter expression and wherein processing further comprises:
- creating a structure for the interfaced parameter expression to enable user access to an interfaced variable in the interfaced parameter expression while the model is being



- 5 executed.
- 1 8. The method of claim 6, wherein creating further comprises defining the structure to
- 2 enable mapping of the interfaced variable to an executable code generated from the model.
- 1 9. The method of claim 1, wherein processing comprises:
- evaluating the parameters to determine numerical values; and
- evaluating the parameters to construct a data structure describing any of the
- 4 parameters that includes an interfaced variable.
- 1 10. The method of claim 8, wherein processing comprises:
- defining each run-time parameter as corresponding to an expression of one or more of
- 3 the parameters.
- 1 11. The method of claim 8, wherein processing comprises:
- defining one of the run-time parameters as corresponding to one of the parameters.
- 1 12. The method of claim 10, wherein the parameter comprises an interfaced parameter
- 2 and wherein defining defines the corresponding run-time parameter as a non-interfaced
- 3 parameter.
- 1 13. The method of claim 10, wherein the parameter is of one data type and wherein
- defining defines the corresponding run-time parameter as having a different data type.
- 1 14. A computer program product residing on a computer-readable medium for
- 2 manipulating graphical block diagram block parameters in a graphical block diagram
- modeling environment, the computer program product comprising instructions causing a
- 4 computer to:
- 5 receive a graphical block diagram of blocks for a model developed by a user; and





- process parameters specified for each of the blocks by the user to produce run-time parameters.
- 1 15. A computer system comprising:
- 2 means for receiving a graphical block diagram of blocks for a model developed by a
- 3 user; and

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- 4 means for processing parameters specified for each of the blocks by the user to
- 5 produce run-time parameters.